## WHAT IS CLAIMED IS:

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1. A color correction circuit for a liquid crystal display comprises:

a color selection unit providing selection items of color temperature values (CT) and Gamma values (ratio of brightness to gray scale) and providing a correction parameter value in corresponding to said CT values and Gamma values selected;

a parameter register unit to load said correction parameter value;

a color signal function-calculation unit to receive an input color signal to make an calculation of color signal correction according to said correction parameter value and to output a color signal calculated-value; and

a color signal output unit receiving and processing said color signal calculated value to output a color signal.

- 2. The color correction circuit for a liquid crystal display as in claim 1, wherein said color selection unit is stored in an ROM (Read-Only-Memory).
- 3. The color correction circuit for a liquid crystal display as in claim 1, wherein said parameter register unit is an SRAM (Static Random Access Memory).
  - 4. The color correction circuit for a liquid crystal display as in claim 1, wherein said color signal function-calculation unit includes at least a comparator, at least an adder-substracter and at least a multiplier.
- 5. The color correction circuit for a liquid crystal display as in claim 1, wherein said color signal output unit uses a halftone technique for processing.
  - 6. The color correction circuit for a liquid crystal display as in claim 1, wherein said color signals are of a red channel, a blue channel and a green channel.
  - 7. A color correction method for a liquid crystal display, said method applies a color correction circuit including a color selection unit, a parameter register unit, a color signal function-calculation unit and a color signal output unit, said method

## includes the steps of:

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- a. said color selection unit provides selection items of CT values and Gamma values;
- b. after selecting an item of said selection items of CT values and Gamma values (ratio of brightness to gray scale) provided by said color selection unit, by function calculating to provide a correction parameter value in corresponding to selected CT values and Gamma values and measured CT values and Gamma values of liquid crystal panels;
- c. said parameter register unit loads said correction parameter value;
- d. said color signal function-calculation unit receives an input color signal to make an calculation of color signal correction according to said correction parameter value and to output a color signal calculated-value; and
  - e. said color signal output unit receives and processes said color signal calculated-value to output a color signal after processing.
- 8. The color correction method for a liquid crystal display as in claim 7, wherein said color selection unit is stored in an ROM (Read-Only-Memory).
  - 9. The color correction method for a liquid crystal display as in claim 7, wherein said parameter register unit is an SRAM (Static Random Access Memory).
  - 10. The color correction method for a liquid crystal display as in claim 7, wherein said color signal function-calculation unit includes at least a comparator, at least an adder-substracter and at least a multiplier.
    - 11. The color correction method for a liquid crystal display as in claim 7, wherein said color signal output unit uses a halftone technique for processing.
- 12. The color correction method for a liquid crystal display as in claim 7, wherein said color signals are of a red channel, a blue channel and a green channel.